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1. DHP13-010: A Human Body Model for Computational Assessment of Blast Injury and Protection

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: Formulate, develop and demonstrate anatomically consistent, articulated human body model for computational assessment of explosion blast injury loads, body responses and casualty estimation and for analysis of personal protective equipment. DESCRIPTION: Blasts from improvised explosive devices (IEDs) are the most common cause of wounded-in-action injuries and death in recent milita ...

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2. DHP13-013: A Point-of-Care Device for Diagnosis of Platelet Injury in Trauma Patients

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: Develop a portable, point-of-care device that directly measures the platelet contribution to clot characteristics. DESCRIPTION: Hemorrhage, associated with trauma is one of the leading causes of preventable death on the modern battlefield. Posttraumatic hemostasis is often impaired by the rapid onset of coagulopathy which has been observed in up to 36% of trauma patients. Trauma-as ...

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3. DHP13-008: A software tool to assess injury risk and maximum allowable exertions for repetitive, forceful one hand and two hand shoulder push/pull motions

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: Develop injury criteria, an assessment methodology, a risk analysis software tool and design criteria for repetitive, forceful one and two hand shoulder push/pull motions performed for variable (brief to long) durations while operating military equipment. The injury criteria, assessment methodology and analysis software will be used to evaluate injury risk from man-machine interaction ...

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4. DHP13-009: A Software Tool to Assess Injury Risk Associated with Mechanical Exposures From Wearing Head Supported Mass

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: Develop injury criteria, methodology, and a software tool to assess the risk of neck injury from loads sustained while wearing head supported mass. The software will characterize the hazards endemic to the ground combat environment and will be used to evaluate products and recommend less hazardous designs and usage scenarios. DESCRIPTION: It is imperative that equipment issued to S ...

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5. DHP13-015: A Universal Device for Performing Cricothyrotomies

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: To develop an all-in-one universal device for performing cricothyrotomies to more effectively manage airway trauma in the battlefield. DESCRIPTION: A cricothyrotomy (or cricothyroidotomy) is an emergency procedure to establish an airway in a patient when intubation attempts are unsuccessful due to acute injury to the head and/or neck. Establishing an airway and restoring oxygen- ...

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6. DHP12-003: Anatomic 3D Synthetic Tissue Printer for Medical Training

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Create a multi-substrate 3D printer with the ability to render high-fidelity anatomically accurate synthetic physical tissue models that can be used for anatomy, trauma and surgical training purposes. It is desired that such simulated tissue consist of multiple substances with varying physical properties, so that bone, muscle, vessels, skin and adipose or organ tissue can be simulated. ...

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7. DHP12-011: Antimicrobial Textiles

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: The objective of this research is to develop durable, scalable, robust and effective long-term antimicrobial textile finish. DESCRIPTION: There is a continuing need for antimicrobial textiles to provide a range of capabilities to the DOD. These include improved hygiene for soldiers via integration into uniforms to control odor; in medical textiles to control the transmission of p ...

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8. DHP14-006: Application of a Wireless Finger-mounted Ultrasound Transducer and Imaging Platform

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: The objective of this topic is to develop and demonstrate a wearable finger-mounted ultrasound transducer and ultrasound imaging platform that uses wireless connectivity for image display and operator interface functions on common commercially available hand held platforms. Medics in isolated environments are now conducting FAST exams in the field to determine internal injuries before ...

SBIR Department of DefenseDefense Health Program

9. DHP13-017: Assistive Technology Sensor Platform

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: Develop advanced sensor technologies that allow for the prosthesis socket and/or prosthetic components to respond to signals from the residual limb based on sensing from within the socket at the residual limb interface. Develop the ability to place sensors comfortably, safely and unobtrusively within the intimate confines of the socket-limb interface. Design and build ruggedized, low- ...

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10. DHP13-002: Automated Non-Invasive Cognitive Load Assessment for Medical Training Effectiveness and Safety

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: Effective team performance is critical during medical emergencies and combat trauma situations. The goal is to make medical team training exercises more useful to participants and more readily interpretable by instructors. The desired result is improved capability to measure -- automatically & noninvasively -- team performance, team dynamics, individual performance, individual cognitiv ...

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